

System 100

Fig. 1

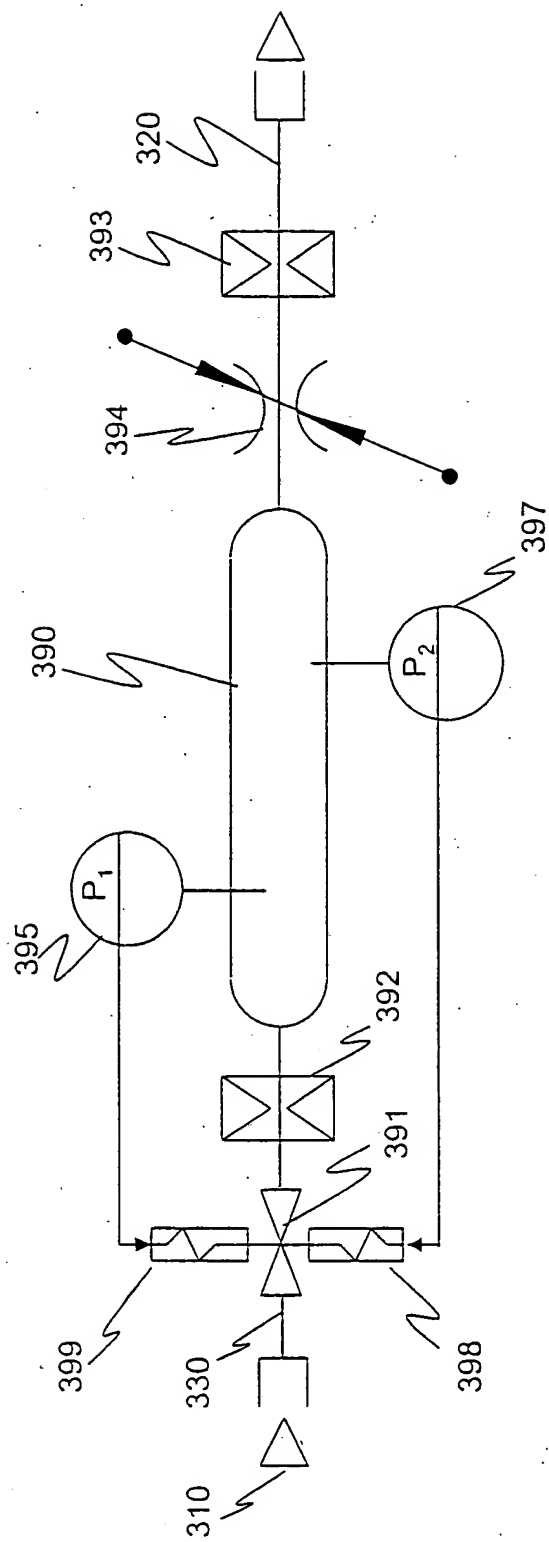


FIG. 2

Hydrogen Pressure and Mass Flow with Maximum External Load

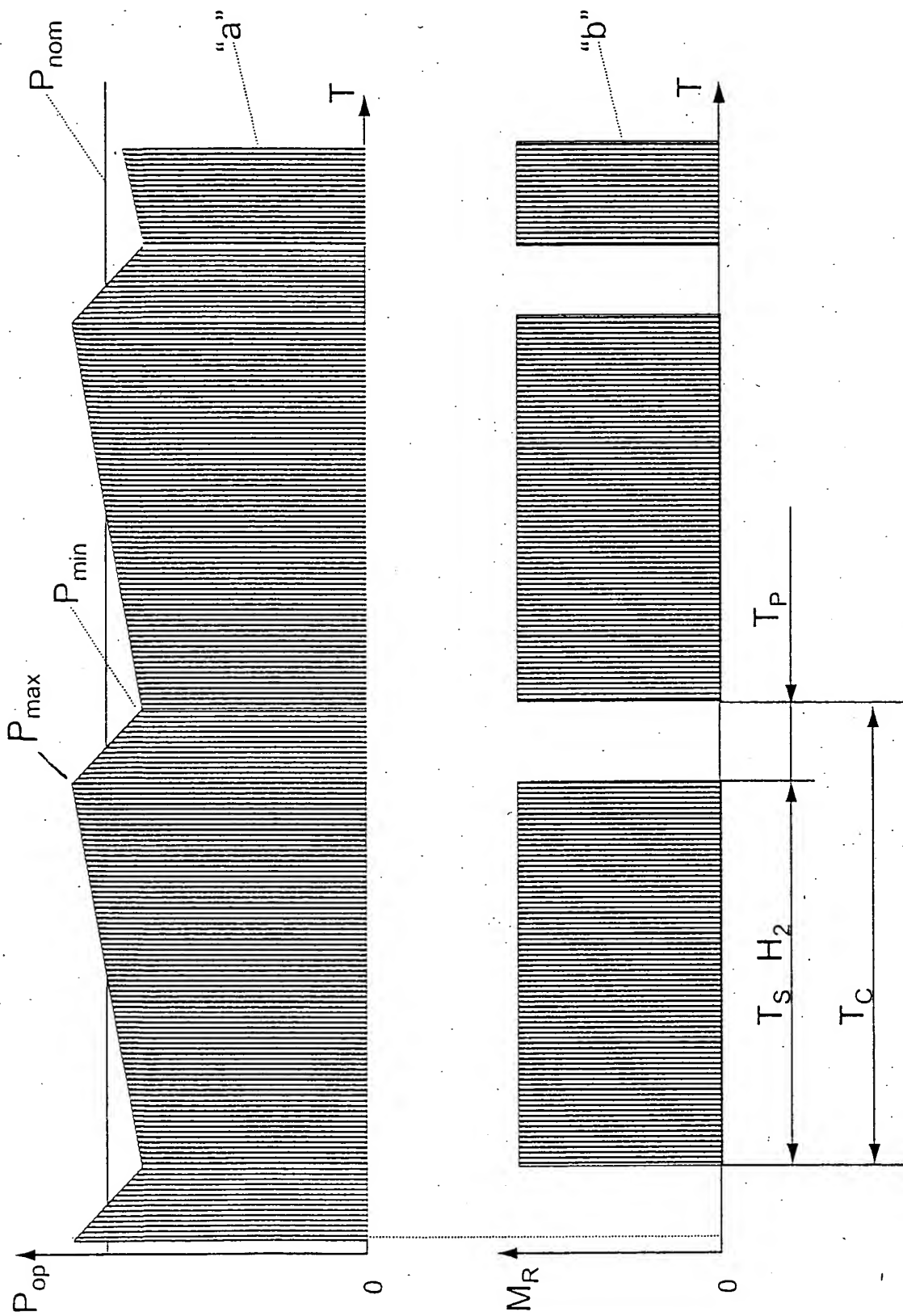


FIG. 3a

Hydrogen Pressure and Mass Flow with Intermediate External Load

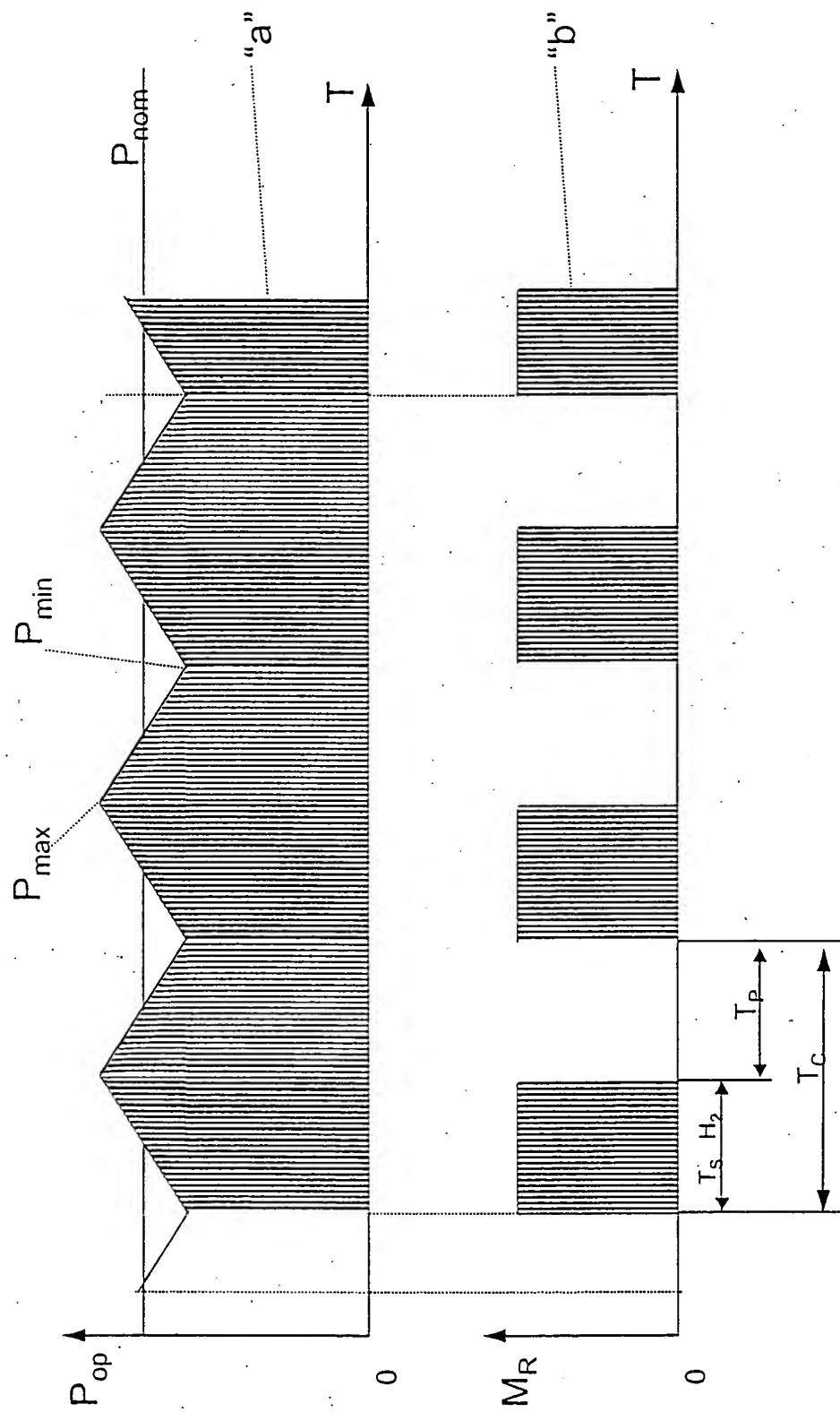
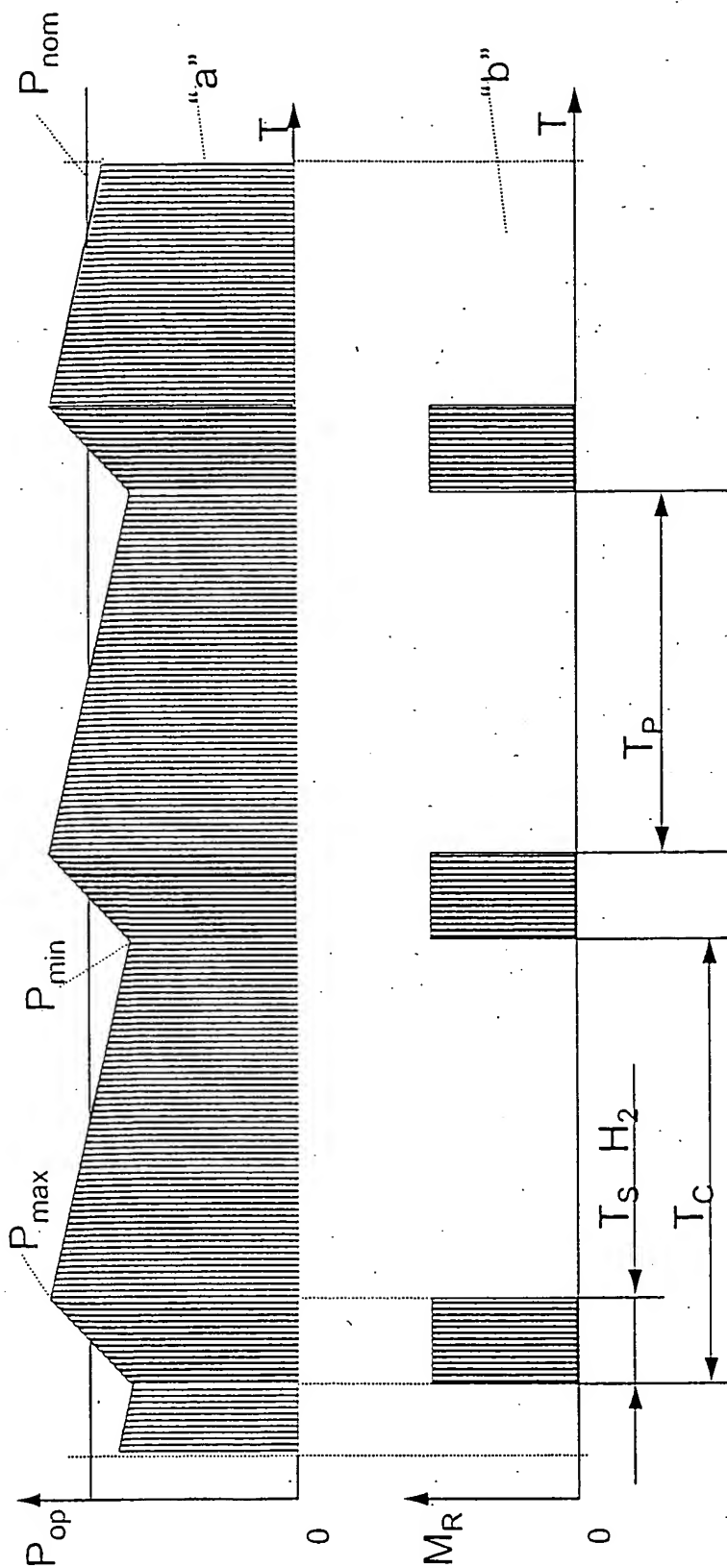


FIG. 3b

Hydrogen Pressure and Mass Flow with Minimal External Load



"a" - Change of the operating pressure in the anode chambers of the fuel cell stack

"b" - Mass gas flow in the gas re-circulation loop

P_{op} - Operating Pressure

P_{max} - Maximum operating pressure

P_{min} - Minimum operating pressure

P_{nom} - Nominal operating pressure

T - Time

M_R - Mass re-circulation flow

$T_s H_2$ - H_2 supply time

T_c - Cycle time

T_p - Pause time

FIG. 3c